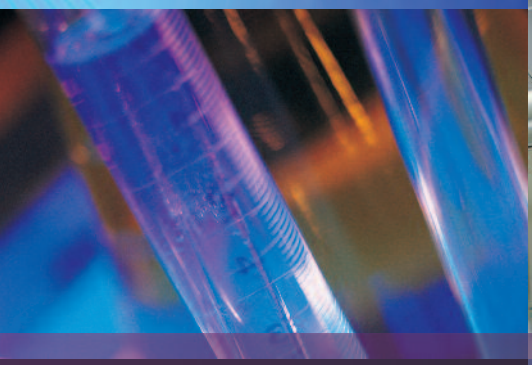

# New! Thermo Scientific Refrigerated and Heated Bath Circulators

*A new generation of advanced, configurable solutions to meet all your temperature control needs*

Part of Thermo Fisher Scientific

Thermo SCIENTIFIC

*Thermo Scientific temperature control products represent a giant leap forward in performance, features, configurability and thermostat technology.*

Configure the most flexible, cost-effective temperature control solutions for any application.

- Pharmaceutical
- BioTech
- Chemical/Petrochemical
- Food & Beverage
- QA/QC
- Research & Development
- Analytical Instruments

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### Environment-friendly Design

Save up to 80% on energy costs and thousands of kilowatt hours during the life of the system.

- All units are RoHS compliant (lead and mercury free)
- Recycled packaging

### Safe Operation

Units are UL/CSA/CE compliant, assuring safe operation in the unlikely event of a fault condition.

- 115/60 Hz units are UL/CE/CSA Listed or Recognized
- All units are RoHS compliant
- Optional IQ/OQ compliance

### Ease of Use

All thermostats feature an intuitive user interface with bright display to view critical readings, and each system comes with a quick-start guide for simple set up and operation.

Thermostat can be turned and positioned on all four sides on the bath for easy viewing

### Superior Warranty and Service

All solutions come with a 36-month warranty and are backed by Thermo Scientific service and support worldwide.

**Thermostats are referenced as stand-alone immersion circulators or integrated control heads in the Arctic and Sahara bath circulators*

# Thermo Scientific Refrigerated and Heating Bath Circulators

A new generation of Thermo Scientific temperature control systems delivers unsurpassed performance and configurability. Now you can match a specific thermostat to the particular heated or refrigerated bath that best meets your application requirement. Three series of thermostats* provide a range of performance and features needed to configure the optimum cost-effective solution.

## Take 4 Steps to a perfect fit!

1

**Choose your Thermostat**
Use the **Selection Guide** on Page 3 to choose the thermostat that best fits your specific application requirements.

2

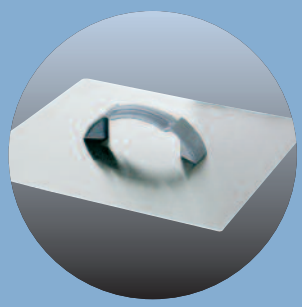
**Choose your Bath**
Then, match the thermostat to a refrigerated or heating bath (see pages 4-13) for the perfect temperature control system.

3

**Add Your Accessories**
Choose the accessories you need for your specific application. (see pages 14-15)

4

**Service**
Add your service options (see pages 16-17)



# Thermo Scientific STANDARD and ADVANCED Series Thermostats

## *Versatile Thermostats in a Wide Range of Performance Levels*

These NEW thermostats combine the best temperature control technologies offering 2 levels of performance with multiple features and benefits. Whether used alone or matched up with one of the refrigerated or heating baths, we offer a thermostat that will meet your needs.

**The STANDARD (SC) Series of Thermostats**
Choose from 3 options. These thermostats are designed for ease-of-use and energy efficiency. Powerful pumping and heating capacity for closed loop applications, this is an economical choice offering solid performance for applications ranging from -28°C to +150°C

**The ADVANCED (AC) Series of Thermostats**
Choose from 2 options. Additional features may be added when you need greater precision, force suction pump, external temperature probe, and temperature ranges from -50° to 200°C.

*STANDARD SC 150 thermostat*

***The thermostat can be repositioned 90° for easier viewing***

*ADVANCED AC 150 thermostat*

**To purchase immersion circulators separately, please use the information below.**

| Description | | Voltages | | |
|---|---|---|---|---|
| | | 115V/60Hz[1, 2] | 230V/50Hz[1] | 100V/50-60Hz[1] |
| SC 100 thermostat w/clamp | Order no. | 152-0018 | 152-0011 | 152-0016 |
| SC 150 thermostat w/clamp | Order no. | 153-0018 | 153-0011 | 153-0016 |
| SC 150L thermostat w/clamp | Order no. | 154-0018 | 154-0011 | 154-0016 |
| AC 150 thermostat w/bridge | Order no. | 155-0028 | 155-0021** | 155-0026 |
| AC 200 thermostat w/bridge | Order no. | 156-0028 | 156-0021** | 156-0026 |

A water cooling coil for the STANDARD and ADVANCED thermostats can be purchased separately as an accessory. See page 14.

Certification: [1] CE [2] cULus cULus

Visit **http://www.ul.com/global/eng/pages/** to view the UL listings for Thermo Fisher Scientific. Reference file #E164214 for these products.
**Voltage is 230/50-60Hz.

# Step 1

Use the table below to **choose the thermostat that best fits your specific application requirements.** Then, match the thermostat to a refrigerated or heating bath.

| | STANDARD series | | | ADVANCED series | |
|---|---|---|---|---|---|
| **Model** | **SC 100** | **SC 150** | **SC 150L** | **AC 150** | **AC 200** |
| **Thermostat Performance** | | | | | |
| Heating cap.@ 230V/115V (kW) | 2/1.2 | 2/1.2 | 2/1.2 | 2/1.2 | 2/1.2 |
| T max (°C) | 100 | 150 | 150 | 150 | 200 |
| Temp. stability (°C)** | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 |
| Max flow rate (l/min) | 17 | 17 | 17 | 20 | 20 |
| Max pressure (mbar/psi) | 300/4.35 | 300/4.35 | 300/4.35 | 475/6.89 | 475/6.89 |
| Max suction (mbar/psi) | | | | 330/4.85 | 330/4.85 |
| Flow rate / pump speed steps | 2 | 2 | 2 | 3 | 3 |
| Immersion depth (mm) | 75..145 | 75..145 | 75..190 | 75..145 | 75..145 |
| **Dimensions/Weight** | | | | | |
| Display dimension (mm) | LCD 53x29 | LCD 53x29 | LCD 53x29 | LCD 71x39 | LCD 71x39 |
| Overall dimensions (mm) H x W x D | 336 x 138 x 199 | 336 x 138 x 199 | 384 x 138 x 199 | 372 x 165 x 199 | 372 x 165 x 199 |
| Overall dimensions (in) H x W x D | 13.2 x 5.4 x 7.8 | 13.2 x 5.4 x 7.8 | 15.1 x 5.4 x 7.8 | 14.6 x 6.4 x 7.8 | 14.6 x 6.4 x 7.8 |
| Net weight | 3.3 Kg | 3.3 Kg | 3.3 Kg | 4.2 Kg | 4.2 Kg |
| **Safety & Compliance** | | | | | |
| Safety class acc. DIN12876 | 1 / NFL | 3 / FL | 3 / FL | 3 / FL | 3 / FL |
| Compliance | UL/CSA/CE | UL/CSA/CE | UL/CSA/CE | UL/CSA/CE | UL/CSA/CE |
| IQ/OQ | Optional | Optional | Optional | Optional | Optional |
| RoHS | • | • | • | • | • |
| **Alarm Sources** | | | | | |
| High temperature alarm | • | • | • | • | • |
| Low level alarm | | • | • | • | • |
| Refrigeration alarm | • | • | • | • | • |
| Application threshold | | | | • | • |
| Application alarm (external)* | | | | Optional | Optional |
| **Alarm indicators** | | | | | |
| Acoustic alarm | • | • | • | • | • |
| Optical alarm | • | • | • | • | • |
| **Connectivity** | | | | | |
| Remote sensor port | | | | • | • |
| Refrigeration port | • | • | • | • | • |
| USB port | | • | • | | • |
| Multi function port | | | | | • |
| RS232 | | Optional | Optional | Optional | Optional |
| RS485 | | Optional | Optional | Optional | Optional |
| Ethernet/LAN | | Optional | Optional | Optional | Optional |
| Analog I/O box (new) own power | | • | • | | • |
| **Displayed data** | | | | | |
| Temperature | • | • | • | • | • |
| Setpoint | • | • | • | • | • |
| High temperature warning | | | | • | • |
| Low level warning | | • | • | • | • |
| High level warning | | | | • | • |
| Alarm notification | • | • | • | • | • |
| Date & Time | | | | | • |
| **Features** | | | | | |
| Energy saving mode | • | • | • | • | • |
| RTA | • | • | • | • | • |
| °C/°F/K selection | • | • | • | • | • |
| Auto restart | • | • | • | • | • |
| System temperature limits | • | • | • | • | • |
| Application temperature limits | • | • | • | • | • |
| Solenoid valve for tap water | | | | | • |
| 3-point calibration | | | | • | • |
| On/Off timer | • | • | • | • | • |
| Preset temperatures | 5 | 5 | 5 | 5 | 5 |
| Ramp programs | | | | | 1 |
| Real time clock | • | • | • | • | • |
| Multiple languages | 3 | 3 | 3 | 8 | 8 |

*In combination with a PT100 sensor probe connected to the external application. **Temperature stability data measured according DIN 12876

# Thermo Scientific ARCTIC Series Refrigerated Bath Circulators

ARCTIC refrigerated bath circulators feature a stainless steel reservoir and are offered in a range of sizes, depths and openings to meet your application needs. With capacities from 5 L to 30 L, units offer recessed handles and drain port opening at the front for operator convenience. The advanced ventilation design allows two sides of the bath to be blocked (allowing placement in room corner) and still deliver full refrigeration performance without affecting the equipment.

The ARCTIC refrigerated circulators offer tight control of cooling capacities. Built-in energy-saving features limit power consumption for efficient operation, and the thermostat can be repositioned 90° for easier viewing.

**Before choosing a bath:** It's important to consider the application differences between refrigerated baths and refrigerated circulators when making your selections.

**The refrigerated baths** (below) are used primarily for controlling the temperature samples placed within them, so the work area dimensions will be important specifications to evaluate. These units can also circulate for a limited set of refrigerated applications.

**The refrigerated circulators** (Page 6) are typically and primarily used to cool an external application, making the cooling capacity the key specification to consider.

## Step 2

**Now select your bath below.**
**To see all thermostat specifications, please refer to Page 3**

| Model | | A5B refrigerated bath | A10B refrigerated bath | # A24B refrigerated bath |
|---|---|---|---|---|
| Temp range | SC100 thermostat | -5 to 100°C | -10 to 100°C | -24 to 100°C |
| Dimensions (HxWxL) mm/in | | 471 x 429 x 738 / 18.5 x 16.9 x 29 | 471 x 429 x 913 / 18.5 x 16.9 x 36 | 574 x 765 x 610 / 22.6 x 30.1 x 24 |
| Temp range | SC150 thermostat | -5 to 150°C | -10 to 150°C | -24 to 150°C |
| Dimensions (HxWxL) mm/in | | 471 x 429 x 738 / 18.5 x 16.9 x 29 | 471 x 429 x 913 / 18.5 x 16.9 x 36 | 574 x 765 x 610 / 22.6 x 30.1 x 24 |
| Temp range | SC150L thermostat | — | — | -24 to 150°C |
| Dimensions (HxWxL) mm/in | | — | — | 574 x 765 x 610 / 22.6 x 30.1 x 24 |
| Temp range | AC150 thermostat | -5 to 150°C | -10 to 150°C | -24 to 150°C |
| Dimensions (HxWxL) mm/in | | 509 x 429 x 738 / 20 x 16.9 x 29 | 509 x 429 x 913 / 20 x 16.9 x 36 | 612 x 765 x 610 / 24.1 x 30.1 x 24 |
| Temp range | AC200 thermostat | -5 to 200°C | -10 to 200°C | -24 to 200°C |
| Dimensions (HxWxL) mm/in | | 509 x 429 x 738 / 20 x 16.9 x 29 | 509 x 429 x 913 / 20 x 16.9 x 36 | 612 x 765 x 610 / 24.1 x 30.1 x 24 |
| Cooling capacity at 20°C 230V/115V | | 200W | 250W | 700W |
| Bath capacity range (liters)* | | 12 to 20 | 17 to 30 | 16 to 27 |
| Work area (DxWxL) mm/in | | 201 x 297 x 190 / 7.9 x 11.7 x 7.5 | 201 x 297 x 365 / 7.9 x 11.7 x 14.3 | 203 x 297 x 313 / 8 x 11.7 x 12.2 |
| Net weight (kg/lb) | | 40/88.9 | 44.5/97.9 | 58.6/128.9 |

**Ordering information:** Find the part number by matching the thermostat to the bath size and voltage you need

| Model | | A5B refrigerated bath | | | A10B refrigerated bath | | | # A24B refrigerated bath | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Voltages | | 115V/60Hz [1,2] | 230V/50Hz [1] | 100V/50-60Hz [1] | 115V/60Hz [1,2] | 230V/50Hz [1] | 100V/50-60Hz [1] | 115V/60Hz [1,2] | 230V/50Hz [1] | 100V/50-60Hz [1] |
| SC 100 thermostat | Order no. | 152-4058 | 152-4051 | 152-4056 | 152-4108 | 152-4101 | 152-4106 | 152-4248 | 152-4241 | 152-4246 |
| SC 150 thermostat | Order no. | 153-4058 | 153-4051 | 153-4056 | 153-4108 | 153-4101 | 153-4106 | 153-4248 | 153-4241 | 153-4246 |
| SC 150L thermostat | Order no. | — | — | — | — | — | — | 154-4248 | 154-4241 | 154-4246 |
| AC 150 thermostat | Order no. | 155-4058 | 155-4051 | 155-4056 | 155-4108 | 155-4101 | 155-4106 | 155-4248 | 155-4241 | 155-4246 |
| AC 200 thermostat | Order no. | 156-4058 | 156-4051 | 156-4056 | 156-4108 | 156-4101 | 156-4106 | 156-4248 | 156-4241 | 156-4246 |

**Bath volume varies depending on the fluid used, temperature range, and items inserted into the reservoir.*

*# Product includes lid.*

Certification: [1] CE [2] cULus [3] cTÜVus

Visit **http://www.ul.com/global/eng/pages/** to view the UL listings for Thermo Fisher Scientific. Reference file #E164214 for these products.

**What's Included:** Communication cables, bridge with gasket & thumbscrews, 8mm and 12mm fittings with clamps, pump plug for external circulation, 6-ft. power cord, 3-year warranty (the baths with the # symbol include the lid)

Typical applications:

- Calibration
- Bioreactors
- Rotary Evaporators
- Condensers
- Sample/Material Testing
- Sample/Material Preparation

*SC 100-A 10 refrigerated circulator*

*The thermostat can be repositioned 90° for easier viewing.*

*The 3 side-ventilation means the unit can be blocked on two sides allowing flexibility when placing in your work area.*

*3-year warranty on all units*

## Step 2

**Now select your bath below.**
**To see all thermostat specifications, please refer to Page 3**

| Model | | # A25B refrigerated bath | # A40B refrigerated bath |
|---|---|---|---|
| Temp range | SC100 thermostat | -25 to 100°C | — |
| Dimensions (HxWxL) mm/in | | 740 x 324 x 541 / 29 x 12.7 x 21.3 | — |
| Temp range | SC150 thermostat | -25 to 150°C | -28 to 150°C |
| Dimensions (HxWxL) mm/in | | 740 x 324 x 541 / 29 x 12.7 x 21.3 | 810 x 415 x 550 / 32 x 16.3 x 21.7 |
| Temp range | SC150L thermostat | — | -28 to 150°C |
| Dimensions (HxWxL) mm/in | | — | 810 x 415 x 550 / 32 x 16.3 x 21.7 |
| Temp range | AC150 thermostat | -25 to 150°C | — |
| Dimensions (HxWxL) mm/in | | 778 x 324 x 541 / 30.6 x 12.7 x 21.3 | — |
| Temp range | AC200 thermostat | -25 to 200°C | -40 to 200°C |
| Dimensions (HxWxL) mm/in | | 778 x 324 x 541 / 30.6 x 12.7 x 21.3 | 850 x 415 x 550 / 33.5 x 16.3 x 21.7 |
| Cooling capacity at 20°C 230V/115V | | 500W | 1000W |
| Bath capacity range (liters)* | | 13 to 21 | 6 to 12 |
| Work area (DxWxL) mm/in | | 233 x 224 x 244 / 9.2 x 8.8 x 9.6 | 200 x 285 x 200 / 7.9 x 11.2 x 7.9 |
| Net weight (kg/lb) | | 42.3/93.1 | 53/117 |

**Ordering information:** Find the part number by matching the thermostat to the bath size and voltage you need

| Model | | # A25B refrigerated bath | | | # A40B refrigerated bath | | |
|---|---|---|---|---|---|---|---|
| Voltages | | 115V/60Hz[1,2] | 230V/50Hz[1] | 100V/50-60Hz[1] | 208V/60Hz[1,2] | 230V/50Hz[1] | 200V/50-60Hz[1] |
| SC100 thermostat | Order no. | 152-4258 | 152-4251 | 152-4256 | — | — | — |
| SC150 thermostat | Order no. | 153-4258 | 153-4251 | 153-4256 | ✸ | ✸ | ✸ |
| SC150L thermostat | Order no. | — | — | — | ✸ | ✸ | ✸ |
| AC150 thermostat | Order no. | 155-4258 | 155-4251 | 155-4256 | — | — | — |
| AC200 thermostat | Order no. | 156-4258 | 156-4251 | 156-4256 | ✸ | ✸ | ✸ |

A40B refrigerated baths will be available in October 2010

**Bath volume varies depending on the fluid used, temperature range, and items inserted into the reservoir.*

*# Product includes lid.*

Certification: [1] CE [2] cULus [3] cTÜVus

Visit **http://www.ul.com/global/eng/pages/** to view the UL listings for Thermo Fisher Scientific. Reference file #E164214 for these products.

## Step 2

**Now select your bath below.**

**To see all thermostat specifications, please refer to page 3**

| Model | | # A10 refrigerated circulator | # A25 refrigerated circulator |
|---|---|---|---|
| Temp range | SC100 thermostat | -10 to 100°C | -25 to 100°C |
| Dimensions (HxWxL) mm/in | | 632 x 220 x 414 / 24.9 x 8.7 x 16.3 | 711 x 273 x 483 / 28 x 10.7 x 19 |
| Temp range | SC150 thermostat | -10 to 150°C | -25 to 150°C |
| Dimensions (HxWxL) mm/in | | 632 x 220 x 414 / 24.9 x 8.7 x 16.3 | 711 x 273 x 483 / 28 x 10.7 x 19 |
| Temp range | SC150L thermostat | — | -25 to 150°C |
| Dimensions (HxWxL) mm/in | | — | 711 x 273 x 483 / 28 x 10.7 x 19 |
| Temp range | AC150 thermostat | -10 to 150°C | -25 to 150°C |
| Dimensions (HxWxL) mm/in | | 670 x 220 x 414 / 26.4 x 8.7 x 16.3 | 749 x 273 x 483 / 29.5 x 10.7 x 19 |
| Temp range | AC200 thermostat | -10 to 200°C | -25 to 200°C |
| Dimensions (HxWxL) mm/in | | 670 x 220 x 414 / 26.4 x 8.7 x 16.3 | 749 x 273 x 483 / 29.5 x 10.7 x 19 |
| Cooling capacity at 20°C 230V/115V | | 240W | 500W |
| Bath capacity range (liters)* | | 4 to 6 | 7 to 12 |
| Work area (DxWxL) mm/in | | 150 x 137 x 124 / 5.9 x 5.4 x 4.9 | 204 x 173 x 184 / 8 x 6.8 x 7.2 |
| Net weight (kg/lb) | | 27.5/60.6 | 36.1/79.5 |

**Ordering information:** Find the part number by matching the thermostat to the bath size and voltage you need

| Model | | # A10 refrigerated circulator | | | # A25 refrigerated circulator | | |
|---|---|---|---|---|---|---|---|
| Voltages | | 115V/60Hz[1,2] | 230V/50Hz[1] | 100V/50-60Hz[1] | 115V/60Hz [1,2] | 230V/50Hz[1] | 100V/50-60Hz[1] |
| SC100 thermostat | Order no. | 152-5108 | 152-5101 | 152-5106 | 152-5258 | 152-5251 | 152-5256 |
| SC150 thermostat | Order no. | 153-5108 | 153-5101 | 153-5106 | 153-5258 | 153-5251 | 153-5256 |
| SC150L thermostat | Order no. | — | — | — | 154-5258 | 154-5251 | 154-5256 |
| AC150 thermostat | Order no. | 155-5108 | 155-5101 | 155-5106 | 155-5258 | 155-5251 | 155-5256 |
| AC200 thermostat | Order no. | 156-5108 | 156-5101 | 155-5106 | 156-5258 | 156-5251 | 156-5256 |

| Model | | # A28 refrigerated circulator | # A28F refrigerated circulator | # A40 refrigerated circulator |
|---|---|---|---|---|
| Temp range | SC100 thermostat | -28 to 100°C | -28 to 100°C | — |
| Dimensions (HxWxL) mm/in | | 711 x 273 x 483 / 28 x 10.7 x 19 | 520 x 514 x 426 / 20.5 x 20.2 x 16.8 | — |
| Temp range | SC150 thermostat | -28 to 150°C | -28 to 150°C | -28 to 150°C |
| Dimensions (HxWxL) mm/in | | 711 x 273 x 483 / 28 x 10.7 x 19 | 520 x 514 x 426 / 20.5 x 20.2 x 16.8 | 749 x 385 x 519 / 29.5 x 15.1 x 20.4 |
| Temp range | SC150L thermostat | -28 to 150°C | -28 to 150°C | -28 to 150°C |
| Dimensions (HxWxL) mm/in | | 711 x 273 x 483 / 28 x 10.7 x 19 | 520 x 514 x 426 / 20.5 x 20.2 x 16.8 | 749 x 385 x 519 / 29.5 x 15.1 x 20.4 |
| Temp range | AC150 thermostat | -28 to 150°C | -28 to 150°C | -28 to 150°C |
| Dimensions (HxWxL) mm/in | | 749 x 273 x 483 / 29.5 x 10.7 x 19 | 558 x 514 x 426 / 22 x 20.2 x 16.8 | 787 x 385 x 519 / 31 x 15.1 x 20.4 |
| Temp range | AC200 thermostat | -28 to 200°C | -28 to 200°C | -40 to 200°C |
| Dimensions (HxWxL) mm/in | | 749 x 273 x 483 / 29.5 x 10.7 x 19 | 558 x 514 x 429 / 22 x 20.2 x 16.8 | 787 x 385 x 519 / 31 x 15.1 x 20.4 |
| Cooling capacity at 20°C 230V/115V | | 320W | 320W | 1000W |
| Bath capacity range (liters)* | | 6 to 10 | 6 to 10 | 7 to 12 |
| Work area (DxWxL) mm/in | | 204 x 173 x 129 / 8 x 6.8 x 5 | 204 x 173 x 129 / 8 x 6.8 x 5 | 204 x 173 x 184 / 8 x 6.8 x 7.2 |
| Net weight (kg/lb) | | 36/79.1 | 35.6/78.3 | 55.2/121.5 |

**Ordering information:** Find the part number by matching the thermostat to the bath size and voltage you need

| Model | | # A28 refrigerated circulator | | | # A28F refrigerated circulator | | | # A40 refrigerated circulator | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Voltages | | 115V/60Hz[1, 2] | 230V/50Hz[1] | 100V/50-60Hz[1] | 115V/60Hz[1, 2] | 230V/50Hz[1] | 100V/50-60Hz[1] | 115V/60Hz[1, 2] | 230V/50Hz[1] | 100V/50-60Hz[1] |
| SC100 thermostat | Order no. | 152-5288 | 152-5281 | 152-5286 | 152-4288 | 152-4281 | 152-4286 | — | — | — |
| SC150 thermostat | Order no. | 153-5288 | 153-5281 | 153-5286 | 153-4288 | 153-4281 | 153-4286 | 153-5408 | 153-5401 | 153-5406 |
| SC150L thermostat | Order no. | 154-5288 | 154-5281 | 154-5286 | 154-4288 | 154-4281 | 154-4286 | 154-5408 | 154-5401 | 154-5406 |
| AC150 thermostat | Order no. | 155-5288 | 155-5281 | 155-5286 | 155-4288 | 155-4281 | 155-4286 | 155-5408 | 155-5401 | 155-5406 |
| AC200 thermostat | Order no. | 156-5288 | 156-5281 | 156-5286 | 156-4288 | 156-4281 | 156-4286 | 156-5408 | 156-5401 | 156-5406 |

**Bath volume varies depending on the fluid used, temperature range, and items inserted into the reservoir.*

*# Product includes lid.*

Certification: [1] CE [2] cULus [3] cTÜVus

Visit **http://www.ul.com/global/eng/pages/** to view the UL listings for Thermo Fisher Scientific. Reference file #E164214 for these products.

# Thermo Scientific GLACIER Series Ultra-Low Refrigerated Circulators

**Glacier ultra-low temperature refrigerated circulators** are suitable for external temperature applications with simultaneous operation in the bath tank. These circulators deliver high heating and cooling capacities for rapid heat-up and cool-down times.

Fitted with adjustable castors, drainport, and handles – it's a perfect fit for any environment. Available heated top plate prevents condensation and icing at low temperatures.

Typical applications:

- Jacketed reaction vessels
- Material testing
- Analytical instrumentation
- Calibration
- Condensers
- Crystallization

## Step 2

**Now select your bath below.**

**To see all thermostat specifications, please refer to Page 3**

| Model | | G50 ultra-low temperature refrigerated circulator |
|---|---|---|
| Temp range | SC100 thermostat | — |
| Dimensions (WxHxL) mm/in | | — |
| Temp range | SC150 thermostat | -28 to 150°C |
| Dimensions (WxHxL) mm/in | | 810 x 415 x 550 / 32 x 16.5 x 21.5 |
| Temp range | SC150L thermostat | -28 to 150°C |
| Dimensions (WxHxL) mm/in | | 810 x 415 x 550 / 32 x 16.5 x 21.5 |
| Temp range | AC150 thermostat | — |
| Dimensions (WxHxL) mm/in | | — |
| Temp range | AC200 thermostat | -50 to 200°C |
| Dimensions (WxHxL) mm/in | | 850 x 415 x 550 / 33.5 x 16.5 x 21.5 |
| Bath capacity range (liters) | | 6 to 12 |
| Cooling capacity at 20°C / 0°C / -20°C (W) | | 850 / 700 / 500 |
| Work area (DxWxL) (mm/in) | | 200 x 285 x 200 / 7.9 x 11.2 x 7.9 |
| Net Weight (kg/lb) | | 53 / 117 |

G50 ultra-low refrigerated circulaters will be available October, 2010

**Ordering Information:** Find the part number by matching the thermostat to the bath size and voltage you need

| Model | | G50 ultra-low refrigerated circulator | | |
|---|---|---|---|---|
| Voltages | | 208V/60Hz [1,3] | 230V/50Hz [1] | 200V/50-60Hz [1] |
| SC100 thermostat | Order no. | — | — | — |
| SC150 thermostat | Order no. | ✸ | ✸ | ✸ |
| SC150L thermostat | Order no. | ✸ | ✸ | ✸ |
| AC150 thermostat | Order no. | — | — | — |
| AC200 thermostat | Order no. | ✸ | ✸ | ✸ |

** 115V and 100V versions of this control head need to be connected by an extra power cord and can not be connected directly to the power from the bath.*

Certification: [1] CE [2] cULus [3] cULus

Visit **http://www.ul.com/global/eng/pages/** to view the UL listings for Thermo Fisher Scientific. Reference file #E164214 for these products.

# Thermo Scientific SAHARA Series Heating Bath Circulators

**The SAHARA heating bath circulators** are ergonomically designed for ease of use and provide multiple certifications for exceptional safety.

Available in capacities from 5 to 49 liters, thermostats are attached by a sturdy bath bridge and can be repositioned 90° for easier viewing.

To meet all of your application requirements, these baths are constructed in a range of sizes and materials. Choose from transparent acrylic, polyphenylene oxide (PPO), or stainless steel.

Typical applications:

- Viscometers
- Spectrophotometers
- Refractometers
- Metrology

What's Included: Communication cables, bridge with gasket & thumbscrews, 8mm and 12mm fittings with clamps, pump plug for external circulation, 6-ft. power cord, 3-year warranty, (the baths with the # symbol include the lid)

Step 2

**Now select your bath below.**

**To see all thermostat specifications, please refer to Page 3**

## Transparent Acrylic Baths

These baths are ideal for applications requiring good visibility.

Temperatures are maintained from ambient plus 13°C to a maximum of 60°C.

*SC150-S6T acrylic bath* *AC150-S12T acrylic bath* *AC150-S19T acrylic bath*

| Model | | S6T heated bath | S12T heated bath | S19T heated bath |
|---|---|---|---|---|
| Temp range | SC100 thermostat | Amb +13 to 60°C | Amb +13 to 60°C | Amb +13 to 60°C |
| Dimensions (HxWxL) mm/in | | 360 x 194 x 445 / 14.2 x 7.6 x 17.5 | 360 x 360 x 370 / 14.2 x 14.2 x 14.6 | 360 x 360 x 510 / 14.2 x 14.2 x 20.1 |
| Temp range | SC150 thermostat | Amb +13 to 60°C | Amb +13 to 60°C | Amb +13 to 60°C |
| Dimensions (HxWxL) mm/in | | 360 x 194 x 445 / 14.2 x 7.6 x 17.5 | 360 x 360 x 370 / 14.2 x 14.2 x 14.6 | 360 x 360 x 510 / 14.2 x 14.2 x 20.1 |
| Temp range | SC150L thermostat | — | — | — |
| Dimensions (HxWxL) mm/in | | — | — | — |
| Temp range | AC150 thermostat | — | Amb +13 to 60°C | Amb +13 to 60°C |
| Dimensions (HxWxL) mm/in | | — | 396 x 360 x 370 / 15.6 x 14.2 x 14.6 | 396 x 360 x 510 / 15.6 x 14.2 x 20.1 |
| Temp range | AC200 thermostat | — | Amb +13 to 60°C | Amb +13 to 60°C |
| Dimensions (HxWxL) mm/in | | — | 396 x 360 x 370 / 15.6 x 14.2 x 14.6 | 396 x 360 x 510 / 15.6 x 14.2 x 20.1 |
| Bath capacity range (liters) | | 4 to 6 | 8 to 12 | 12 to 19 |
| With tap water cooling coil option added | | +20°C to 60°C | +20°C to 60°C | +20°C to 60°C |
| Work area (DxWxL) mm/in | | 130 x 138 x 225 / 5.1 x 5.4 x 8.8 | 130 x 300 x 152 / 5.1 x 11.8 x 6 | 130 x 300 x 320 / 5.1 x 11.8 x 12.6 |
| Net weight (kg/lb) | | 6.3 / 13.9 | 7.3 / 16.1 | 8.7 / 19.1 |

**Ordering information:** Find the part number by matching the thermostat to the bath size and voltage you need

| Model | | S6T heated bath | | | S12T heated bath | | | S19T | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Voltages | | 115V/60Hz | 230V/50Hz[1] | 100V/50-60Hz[1] | 115V/60Hz | 230V/50Hz[1] | 100V/50-60Hz[1] | 115V/60Hz | 230V/50Hz[1] | 100V/50-60Hz[1] |
| SC100 thermostat | Order no. | 152-2062 | 152-2061 | 152-2066 | 152-2122 | 152-2121 | 152-2126 | 152-2192 | 152-2191 | 152-2196 |
| SC150 thermostat | Order no. | 153-2062 | 153-2061 | 153-2066 | 153-2122 | 153-2121 | 153-2126 | 153-2192 | 153-2191 | 153-2196 |
| SC150L thermostat | Order no. | — | — | — | — | — | — | — | — | — |
| AC150 thermostat | Order no. | — | — | — | 155-2122 | 155-2121** | 155-2126 | 155-2192 | 155-2192** | 155-2196 |
| AC200 thermostat | Order no. | — | — | — | 156-2122 | 156-2121** | 156-2126 | 156-2192 | 156-2192** | 156-2196 |

***Voltage is 230/50-60Hz. *Bath volume varies depending on the fluid used, temperature range, and items inserted into the reservoir.*

Certification: [1] CE [2] cULus [3] cULus

Visit **http://www.ul.com/global/eng/pages/** to view the UL listings for Thermo Fisher Scientific. Reference file #E164214 for these products.

# Thermo Scientific SAHARA Series Heating Bath Circulators

## Polyphenylene Oxide (PPO)

An economical alternative to stainless steel, these modified polyphenylene oxide baths are thermally resistant up to 100° C and deliver exceptional temperature performance with operational savings. Temperatures are maintained from ambient plus 13°C to 100°C.

*SC 150-S 5P PPO heated bath* *AC 150-S 14P PPO heated bath* *AC 150-S 21P PPO heated bath*

## Step 2

**Now select your bath below.**
**To see all thermostat specifications, please refer to page 3**

| Model | | S5P heated bath | S14P heated bath | S21P heated bath |
|---|---|---|---|---|
| Temp range | SC100 thermostat | Amb +13 to 100°C | Amb +13 to 100°C | Amb +13 to 100°C |
| Dimensions (HxWxL) mm/in | | 360 x 187 x 395 / 14.2 x 7.2 x 15.6 | 360 x 360 x 450 / 14.2 x 14.2 x 17.7 | 360 x 360 x 650 / 14.2 x 14.2 x 25.6 |
| Temp range | SC150 thermostat | Amb +13 to 100°C | Amb +13 to 100°C | Amb +13 to 100°C |
| Dimensions (HxWxL) mm/in | | 360 x 187 x 395 / 14.2 x 7.2 x 15.6 | 360 x 360 x 450 / 14.2 x 14.2 x 17.7 | 360 x 360 x 650 / 14.2 x 14.2 x 25.6 |
| Temp range | SC150L thermostat | — | — | — |
| Dimensions (HxWxL) mm/in | | — | — | — |
| Temp range | AC150 thermostat | — | Amb +13 to 100°C | Amb +13 to 100°C |
| Dimensions (HxWxL) mm/in | | — | 396 x 360 x 450 / 15.6 x 14.2 x 17.7 | 396 x 360 x 650 / 15.6 x 14.2 x 25.6 |
| Temp range | AC200 thermostat | — | Amb +13 to 100°C | Amb +13 to 100°C |
| Dimensions (HxWxL) mm/in | | — | 396 x 360 x 450 / 15.6 x 14.2 x 17.7 | 396 x 360 x 650 / 15.6 x 14.2 x 25.6 |
| Bath capacity range (liters) | | 3 to 5 | 8 to 14 | 13 to 21 |
| With tap water cooling coil option added | | +20°C to 100 | +20°C to 100 | +20°C to 100 |
| Work area (DxWxL) mm/in | | 130 x 125 x 120 / 5.1 x 4.9 x 4.7 | 130 x 294 x 157 / 5.1 x 11.6 x 6.2 | 130 x 294 x 347 / 5.1 x 11.6 x 13.7 |
| Net weight (kg/lb) | | 5.1 / 11.2 | 6.3 / 13.9 | 6.6 / 14.5 |

**Ordering information:** Find the part number by matching the thermostat to the bath size and voltage you need

| Model | | S5P heated bath | | | S14P heated bath | | | S21P heated bath | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Voltages | | 115V/60Hz[1,3] | 230V/50Hz[1] | 100V/50-60Hz[1] | 115V/60Hz[1,3] | 230V/50Hz[1] | 100V/50-60Hz[1] | 115V/60Hz[1,3] | 230V/50Hz[1] | 100V/50-60Hz[1] |
| SC100 thermostat | Order no. | 152-3052 | 152-3051 | 152-3056 | 152-3142 | 152-3141 | 152-3146 | 152-3212 | 152-3211 | 152-3216 |
| SC150 thermostat | Order no. | 153-3052 | 153-3051 | 153-3056 | 153-3142 | 153-3141 | 153-3146 | 153-3212 | 153-3211 | 153-3216 |
| SC150L thermostat | Order no. | — | — | — | — | — | — | — | — | — |
| AC150 thermostat | Order no. | — | — | — | 155-3142 | 155-3141** | 155-3146 | 155-3212 | 155-3211** | 155-3216 |
| AC200 thermostat | Order no. | — | — | — | 156-3142 | 155-3141** | 156-3146 | 156-3212 | 155-3211** | 156-3216 |

***Voltage is 230/50-60Hz. *Bath volume varies depending on the fluid used, temperature range, and items inserted into the reservoir.*

Certification: [1] CE [2] cULus [3] cTÜVus

Visit **http://www.ul.com/global/eng/pages/** to view the UL listings for Thermo Fisher Scientific. Reference file #E164214 for these products.

## Stainless Steel

Powerful heating circulators with a stainless steel reservoir can be configured with different temperature ranges and volumes with efficient heating for open and closed applications. Rugged and corrosion-resistant for high temperature applications up to 200°C.

Choose from space-saving vertical baths or ergonomically flat baths to fit your lab.

***AC 150-S 15 heated bath***
*Bath cover purchased separately*

# Step 2

**Now select your bath below.**
**To see all thermostat specifications, please refer to Page 3**

| Model | | # S3 stainless steel heated bath circulator | # S7 stainless steel heated bath circulator |
|---|---|---|---|
| Temp range | SC100 thermostat | Amb +13 to 100°C | Amb +13 to 100°C |
| Dimensions (HxWxL) mm/in | | 406 x 235 x 428 / 16 x 9.2 x 16.8 | 456 x 235 x 428 / 18 x 19.2 x 16.8 |
| Temp range | SC150 thermostat | Amb +13 to 150°C | Amb +13 to 150°C |
| Dimensions (HxWxL) mm/in | | 406 x 235 x 428 / 16 x 9.2 x 16.8 | 456 x 235 x 428 / 18 x 19.2 x 16.8 |
| Temp range | SC150L thermostat | — | Amb +13 to 150°C |
| Dimensions (HxWxL) mm/in | | — | 456 x 235 x 428 / 18 x 19.2 x 16.8 |
| Temp range | AC150 thermostat | Amb +13 to 150°C | Amb +13 to 150°C |
| Dimensions (HxWxL) mm/in | | 444 x 235 x 428 / 17.5 x 9.2 x 16.8 | 494 x 235 x 428 / 19.4 x 19.2 x 16.8 |
| Temp range | AC200 thermostat | Amb +13 to 200°C | Amb +13 to 200°C |
| Dimensions (HxWxL) mm/in | | 444 x 235 x 428 / 17.5 x 9.2 x 16.8 | 494 x 235 x 428 / 19.4 x 19.2 x 16.8 |
| With tap water cooling coil option added | | +20°C to 100°C | +20°C to 100°C |
| Bath capacity range (liters) | | 2 to 5 | 4 to 7 |
| Work area (DxWxL) mm/in | | 150 x 154 x 112 / 5.9 x 6 x 4.3 | 185 x 154 x 112 / 7.3 x 6 x 4.3 |
| Net weight (kg/lb) | | 9.8/21.5 | 10.6/23.4 |

**Ordering information:** Find the part number by matching the thermostat to the bath size and voltage you need

| Model | | # S3 stainless steel heated bath circulator | | | # S7 stainless steel heated bath circulator | | |
|---|---|---|---|---|---|---|---|
| Voltages | | 115V/60Hz[1, 2] | 230V/50Hz[1] | 100V/50-60Hz[1] | 115V/60Hz[1, 2] | 230V/50Hz[1] | 100V/50-60Hz[1] |
| SC100 thermostat | Order no. | 152-1038 | 152-1031 | 152-1036 | 152-1078 | 152-1071 | 152-1076 |
| SC150 thermostat | Order no. | 153-1038 | 153-1031 | 153-1036 | 153-1078 | 153-1071 | 153-1076 |
| SC150L thermostat | Order no. | — | — | — | 154-1078 | 154-1071 | 154-1076 |
| AC150 thermostat | Order no. | 155-1038 | 155-1031** | 155-1036 | 155-1078 | 155-1071** | 155-1076 |
| AC200 thermostat | Order no. | 156-1038 | 156-1031** | 156-1036 | 156-1078 | 156-1071** | 156-1076 |

***Voltage is 230/50-60Hz. *Bath volume varies depending on the fluid used, temperature range, and items inserted into the reservoir.*

*# Product includes lid.*

Certification: [1] CE [2] cULus [3] cTUVus

Visit **http://www.ul.com/global/eng/pages/** to view the UL listings for Thermo Fisher Scientific. Reference file #E164214 for these products.

*(Stainless Steel continued)*

## Step 2

**Now select your bath below.**
**To see all thermostat specifications, please refer to Page 3**

| Model | | # S13 stainless steel heated bath circulator | S15 stainless steel heated bath | S21 stainless steel heated bath |
|---|---|---|---|---|
| Temp range | SC100 thermostat | Amb +13 to 100°C | Amb +13 to 100°C | Amb +13 to 100°C |
| Dimensions (HxWxL) mm/in | | 456 x 321 x 428/17.9 x 12.6 x 16.8 | 456 x 381 x 457 / 17.9 x 15 x 18 | 409 x 381 x 628 / 16.1 x 15 x 24.7 |
| Temp range | SC150 thermostat | Amb +13 to 150°C | Amb +13 to 150°C | Amb +13 to 150°C |
| Dimensions (HxWxL) mm/in | | 456 x 321 x 428/17.9 x 12.6 x 16.8 | 456 x 381 x 457 / 17.9 x 15 x 18 | 409 x 381 x 628 / 16.1 x 15 x 24.7 |
| Temp range | SC150L thermostat | Amb +13 to 150°C | Amb +13 to 150°C | — |
| Dimensions (HxWxL) mm/in | | 456 x 321 x 428/17.9 x 12.6 x 16.8 | 456 x 381 x 457 / 17.9 x 15 x 18 | — |
| Temp range | AC150 thermostat | Amb +13 to 150°C | Amb +13 to 150°C | Amb +13 to 150°C |
| Dimensions (HxWxL) mm/in | | 494 x 321 x 428/19.4 x 12.6 x 16.8 | 494 x 381 x 457 / 19.4 x 15 x 18 | 447 x 628 x 381 / 17.6 x 24.7 x 15 |
| Temp range | AC200 thermostat | Amb +13 to 200°C | Amb +13 to 200°C | Amb +13 to 200°C |
| Dimensions (HxWxL) mm/in | | 494 x 321 x 428/19.4 x 12.6 x 16.8 | 494 x 381 x 457 / 19.4 x 15 x 18 | 447 x 628 x 381 / 17.6 x 24.7 x 15 |
| With tap water cooling coil option added | | +20°C to 100°C | +20°C to 100°C | +20°C to 100°C |
| Bath capacity range (liters) | | 7 to 11 | 7 to 17 | 7 to 17 |
| Work area (DxWxL) mm/in | | 200 x 239 x 112 / 7.9 x 9.4 x 4.4 | 202 x 300 x 141 / 7.9 x 11.8 x 5.5 | 151 x 297 x 312 / 5.9 x 11.7 x 12.3 |
| Net weight (kg/lb) | | 12.3/27 | 13.7/30.1 | 14.2/31.2 |

**Ordering information:** Find the part number by matching the thermostat to the bath size and voltage you need

| Model | | # S13 stainless steel heated bath circulator | | | S15 stainless steel heated bath | | | S21 stainless steel heated bath | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Voltages | | 115V/60Hz[1, 2] | 230V/50Hz[1] | 100V/50-60Hz[1] | 115V/60Hz[1, 2] | 230V/50Hz[1] | 100V/50-60Hz[1] | 115V/60Hz[1, 2] | 230V/50Hz[1] | 100V/50-60Hz[1] |
| SC100 thermostat | Order no. | 152-1138 | 152-1131 | 152-1136 | 152-1158 | 152-1151 | 152-1156 | 152-1218 | 152-1211 | 152-1216 |
| SC150 thermostat | Order no. | 153-1138 | 153-1131 | 153-1136 | 153-1158 | 153-1151 | 153-1156 | 153-1218 | 153-1211 | 153-1216 |
| SC150L thermostat | Order no. | 154-1138 | 154-1131 | 154-1136 | 154-1158 | 154-1151 | 154-1156 | — | — | — |
| AC150 thermostat | Order no. | 155-1138 | 155-1131** | 155-1136 | 155-1158 | 155-1151** | 155-1156 | 155-1218 | 155-1211** | 155-1216 |
| AC200 thermostat | Order no. | 156-1138 | 156-1131** | 156-1136 | 156-1158 | 156-1151** | 156-1156 | 156-1218 | 156-1211** | 156-1216 |

***Voltage is 230/50-60Hz. *Bath volume varies depending on the fluid used, temperature range, and items inserted into the reservoir.* *# Product includes lid.*

Certification: [1] CE [2] cULus [3] cTÜVus

Visit **http://www.ul.com/global/eng/pages/** to view the UL listings for Thermo Fisher Scientific. Reference file #E164214 for these products.

| Model | | S30 stainless steel heated bath | S45 stainless steel heated bath | S49 stainless steel heated bath |
|---|---|---|---|---|
| Temp range | SC100 thermostat | Amb +13 to 100°C | Amb +13 to 100°C | Amb +13 to 100°C |
| Dimensions (HxWxL) mm/in | | 456 x 381 x 628 / 17.9 x 15 x 24.7 | 556 x 381 x 628 / 21.9 x 15 x 24.7 | 456 x 579 x 746 / 17.9 x 22.8 x 29.4 |
| Temp range | SC150 thermostat | Amb +13 to 150°C | Amb +13 to 150°C | Amb +13 to 150°C |
| Dimensions (HxWxL) mm/in | | 456 x 381 x 628 / 17.9 x 15 x 24.7 | 556 x 381 x 628 / 21.9 x 15 x 24.7 | 456 x 579 x 746 / 17.9 x 22.8 x 29.4 |
| Temp range | SC150L thermostat | Amb +13 to 150°C | Amb +13 to 150°C | Amb +13 to 150°C |
| Dimensions (HxWxL) mm/in | | 456 x 381 x 628 / 17.9 x 15 x 24.7 | 556 x 381 x 628 / 21.9 x 15 x 24.7 | 456 x 579 x 746 / 17.9 x 22.8 x 29.4 |
| Temp range | AC150 thermostat | Amb +13 to 150°C | Amb +13 to 150°C | Amb +13 to 150°C |
| Dimensions (HxWxL) mm/in | | 494 x 381 x 628 / 19.4 x 15 x 24.7 | 594 x 381 x 628 / 23.4 x 15 x 24.7 | 494 x 579 x 746 / 19.4 x 22.8 x 29.4 |
| Temp range | AC200 thermostat | Amb +13 to 200°C | Amb +13 to 200°C | Amb +13 to 200°C |
| Dimensions (HxWxL) mm/in | | 494 x 381 x 628 / 19.4 x 15 x 24.7 | 594 x 381 x 628 / 23.4 x 15 x 24.7 | 494 x 579 x 746 / 19.4 x 22.8 x 29.4 |
| With tap water cooling coil option added | | +20°C to 100°C | +20°C to 100°C | +20°C to 100°C |
| Bath capacity range (liters)* | | 14 to 24 | 30 to 41 | 29 to 51 |
| Work area (DxWxL) mm/in | | 200 x 297 x 312 / 7.9 x 11.7 x 12.3 | 300 x 298 x 312 / 11.8 x 11.7 x 12.3 | 200 x 498 x 430 / 7.9 x 19.6 x 16.9 |
| Net weight (kg/lb) | | 16.5/36.2 | 20.3/44.7 | 24.3/53.4 |

**Ordering information:** Find the part number by matching the thermostat to the bath size and voltage you need

| Model | | S30 stainless steel heated bath | | | S45 stainless steel heated bath | | | S49 stainless steel heated bath | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Voltages | | 115V/60Hz[1,2] | 230V/50Hz[1] | 100V/50-60Hz[1] | 115V/60Hz[1, 2] | 230V/50Hz[1] | 100V/50-60Hz[1] | 115V/60Hz[1, 2] | 230V/50Hz[1] | 100V/50-60Hz[1] |
| SC100 thermostat | Order no. | 152-1308 | 152-1301 | 152-1306 | 152-1458 | 152-1451 | 152-1456 | 152-1498 | 152-1491 | 152-1496 |
| SC150 thermostat | Order no. | 153-1308 | 153-1301 | 153-1306 | 153-1458 | 153-1451 | 153-1456 | 153-1498 | 153-1491 | 143-1496 |
| SC150L thermostat | Order no. | 154-1308 | 154-1301 | 154-1306 | 154-1458 | 154-1451 | 154-1456 | 154-1498 | 154-1491 | 154-1496 |
| AC150 thermostat | Order no. | 155-1308 | 155-1301** | 155-1306 | 155-1458 | 155-1451** | 155-1456 | 155-1498 | 155-1491** | 155-1496 |
| AC200 thermostat | Order no. | 156-1308 | 156-1301** | 156-1306 | 156-1458 | 156-1451** | 156-1456 | 156-1498 | 156-1491** | 156-1496 |

**Bath volume varies depending on the fluid used, temperature range, and items inserted into the reservoir. **Voltage is 230/50-60Hz*

Certification: [1] CE [2] cULus [3] cTÜVus

Visit **http://www.ul.com/global/eng/pages/** to view the UL listings for Thermo Fisher Scientific. Reference file #E164214 for these products.

# Step 3 → Add your Bath/Circulator Accessories

| Part# | Bath / Circulators Accessories |
|---|---|
| **160-0002** | Universal stainless steel Rack for bath types A5B, A10B, A24B, S49, S19T, S14P, S21P. 283x145mm. Two inserts with different sizes of holes can be varied in height within the rack. |
| **160-0003** | 2x Rack Inserts 283x145mm rack for 86 Test Tubes, of 10mm Ø |
| **160-0004** | 2x Rack Insert 283x145mm rack for 46 Test Tubes, of 16mm Ø |
| **160-0005** | 2x Rack Insert 283x145mm rack for 23 Test Tubes, of 25mm Ø |
| **160-0006** | 2x Rack Inserts 283x145mm rack without Holes; customer may provide special size holes |
| **160-0079** | Universal stainless steel Rack for bath types A25B, A40, S21, S30. 160x145mm. Two inserts with different sizes of holes can be varied in height within the rack. |
| **160-0080** | 2x Rack Inserts 160x145mm rack for 86 Test Tubes, of 10mm Ø |
| **160-0081** | 2x Rack Insert 160x145mm rack for 46 Test Tubes, of 16mm Ø |
| **160-0082** | 2x Rack Insert 160x145mm rack for 23 Test Tubes, of 25mm Ø |
| **160-0083** | 2x Rack Inserts 160x145mm rack without Holes; customer may provide special size holes |
| **160-0026** | Stainless steel Rack 160X100mm for bath types S13, S12T, S15. Two inserts with different sizes of holes can be varied in height within the rack |
| **160-0084** | 2x Rack Inserts 160x100mm rack for 86 Test Tubes, of 10mm Ø |
| **160-0085** | 2x Rack Insert 160x100mm rack for 46 Test Tubes, of 16mm Ø |
| **160-0086** | 2x Rack Insert 160x100mm rack for 23 Test Tubes, of 25mm Ø |
| **160-0087** | 2x Rack Inserts 160x100mm rack without Holes; customer may provide special size holes |
| **333-0134** | Plastic Inserts, which snap into the 16mm holes of the rack inserts. Converts 16 mm to 3-10mm Ø, 50 Pieces |
| **333-0135** | Plastic Inserts, which snap into the 25mm holes of the rack inserts. Converts 25 mm to 5-17mm Ø, 25 Pieces |
| **160-0066** | Pailette rack for max. 30 pailettes, 4,2 mm Ø |
| **160-0067** | Pailette rack for max. 30 pailettes 2 mm Ø |
| **160-0007** | Extension bridge for S15, S21, S30, S45 Liftplate |
| **160-0077** | Extension bridge for S15, S21, S30, S45 add immersion cooler |
| **160-0078** | Steel bridge to hold SC or AC control head for use with legacy W13, W15, W26, W45, W46 baths |
| **160-0009** | Extension bridge for S49 Liftplate |
| **160-0036** | Extension bridge for A5B, A10B Liftplate |
| **160-0018** | Bridge adjustable in widths between 300 and 800 mm , for SC, AC & PC Bridge Circulators, |
| **160-0011** | Lifting Platform, stainless steel for S21, S30, S45, A10B |
| **160-0012** | Lifting Platform, stainless steel for S15, A5B |
| **160-0013** | Lifting Platform stainless steel for S49 |

| Part# | Bath / Circulators Accessories (continued) |
|---|---|
| **160-0014** | Tap Water Cooling Coil for regular bath bridge SC100/150 & AC150/200 for S13, S15, S21, S30, S45, S49, S14P, S21P, S12T, S19T |
| **160-0015** | Tap Water Cooling Coil, short, for clamp holder Immersion Circulator SC100 & SC150 |
| **160-0016** | Tap Water Cooling Coil, long, for regular bath bridge SC150L for S13, S15, S30, S45, S49 |
| **160-0017** | Tap Water Cooling Coil, long, for clamp holder Immersion Circulator SC150L |
| **160-0090** | Tap Water Cooling Coil for S5P with SC100/150 including extra stainless steel lid |
| **160-0091** | Tap Water Cooling Coil for S6T with SC100/150 |
| **160-0092** | Tap Water Cooling Coil for S3 & S7 with SC100/150 including extra stainless steel lid |
| **160-0093** | Tap Water Cooling Coil for S7 with SC150L including extra stainless steel lid |
| **160-0094** | Tap Water Cooling Coil for S3& S7 with AC150/AC200 including extra stainless steel lid |
| **160-0027** | Communication extension board for RS232 |
| **160-0075** | Communication extension board for RS485 |
| **160-0076** | Communication extension board for Ethernet/LAN |
| **160-0033** | Interface Cable USB 1,8m long |
| **160-0034** | Interface Cable RS485 2m long |
| **160-0035** | Interface Cable LAN 2m long |
| **222-1358** | Interface Cable RS232 |
| **011-1147** | Power cable 230V / 50 Hz for DE/EU |
| **011-1148** | Power cable 230V / 50 Hz for China |
| **011-5163** | Power cable 230V / 50 Hz for UK |
| **011-5012** | User manual for systems with Standard thermostat SC - in German |
| **011-5013** | User manual for systems with Standard thermostat SC - in English |
| **011-5014** | User manual for systems with Standard thermostat SC - in French |
| **011-5015** | UL/CSA version SC user manual english |
| **Part#** | **Covers / Lids** |
| 160-0020 | Stainless steel Bath lid for S5P Bath |
| 160-0021 | Stainless steel Bath lid for S14P Bath |
| 160-0022 | Stainless steel Bath lid for S21P Bath |
| 160-0037 | Stainless Steel Bath lid,flat with handle for S15 |
| 160-0038 | Stainless Steel Bath lid,flat with handle for S21, S30, S45 |
| 160-0040 | Stainless Steel Bath lid,flat with handle for S49 |
| 160-0041 | Stainless Steel Bath lid,flat with handle for A5B |
| 160-0042 | Stainless Steel Bath lid,flat with handle for A10B |
| 160-0043 | Stainless Steel Bath lid,flat with handle for A25B |
| 160-0044 | Stainless Steel Bath lid,flat with handle for A24B |
| 827-0310 | Plastic Balls as Floating Bath Cover to reduce evaporation, max bath temperature 90°C. Pack with 500 balls sufficient for 0,2 m_ |

| Part# | Tubing |
|---|---|
| 082-0172 | Perbunan Tubing, For -40°C to +100°C Temperature Range, 8mm i. Ø per meter |
| 082-0173 | Perbunan Tubing, For -40°C to +100°C Temperature Range, 12mm i. Ø per meter |
| 082-0745 | PVC Tubing, For Use with Water Only, 8mm i.Ø per meter |
| 082-0304 | PVC Tubing, For Use with Water Only, 12mm i.Ø per meter |
| 082-0663 | Silicone Tubing, For -30°C to +220°C Temperature Range, Not to be Used with Silicone Oil, 8mm i. Ø per meter |
| 082-0664 | Silicone Tubing, For -30°C to +220°C Temperature Range, Not to be Used with Silicone Oil, 12mm i. Ø per meter |
| 082-1214 | Viton Tubing, For -60°C to +200°C Temperature Range, 8mm i. Ø per meter |
| 082-1215 | Viton Tubing, For -60°C to +200°C Temperature Range, 12mm i. Ø per meter |
| 333-0292 | Insulated metal tubing stainless steel with M16x1 unions on both ends. For Temp.Range -50 to +300°C. 50cm long. |
| 333-0293 | Insulated metal tubing stainless steel with M16x1 unions on both ends. For Temp.Range -50 to +300°C. 100cm long. |
| 333-0294 | Insulated metal tubing stainless steel with M16x1 unions on both ends. For Temp.Range -50 to +300°C. 150cm long. |
| 333-0578 | Insulated metal tubing stainless steel with M16x1 unions on both ends. For Temp.Range -90 to 105°C. 100cm long |
| 333-0579 | Insulated metal tubing stainless steel with M16x1 unions on both ends. For Temp.Range -90 to 105°C. 150cm long |
| **Part#** | **Tubing Accessories** |
| 000-2716 | Tubing clamp for tubings 12 mm i. Ø per meter |
| 000-2025 | Tubing clamp for tubings 8 mm i. Ø per meter |
| 000-2656 | Tubing clamp for tubings 12 mm i. Ø per meter |
| 000-2711 | Tubing clamp for tubings 8 mm i. Ø per meter |
| 160-0028 | Adapter M16x1 female/1/4"NPTF male |
| 160-0029 | Adapter M16x1 male/1/4"NPTF male |
| 001-0797 | Coupling Nut M 16 x 1, Stainless Steel, for attaching hose couplings 001-1209, 001-1210 and 001-3718 |
| 001-0798 | Closing plate, stainless steel, for coupling nut 001-0797, for sealing the pressure and suction nozzles |
| 001-1209 | Tubing fitting, stainless steel, for tubings with 8 mm i. Ø per meter (for M16x1 connection) |
| 001-1210 | Tubing fitting, stainless steel, for tubings with 12 mm i. Ø per meter (for M16x1 connection) |
| 001-2560 | Connection Coupling M16x1-M16x1 for Insulated Stainless Steel Tubing |
| 001-3718 | Universal Hose Nozzle for Tubing of 3 to 6mm Ø ( for M16x1 connection) |
| 333-0147 | Spiral spring to prevent kinks for tubings with 12 mm i. Ø per meter |
| 333-0314 | Coupling stainless steel, R3/8" - M16 x 1 coupling nut |
| 806-0435 | T- piece for tubings with 12 mm i. Ø per meter |
| 806-0410 | T- piece for tubings with 8 mm i. Ø per meter |
| 806-0419 | Tubing pinch cock |

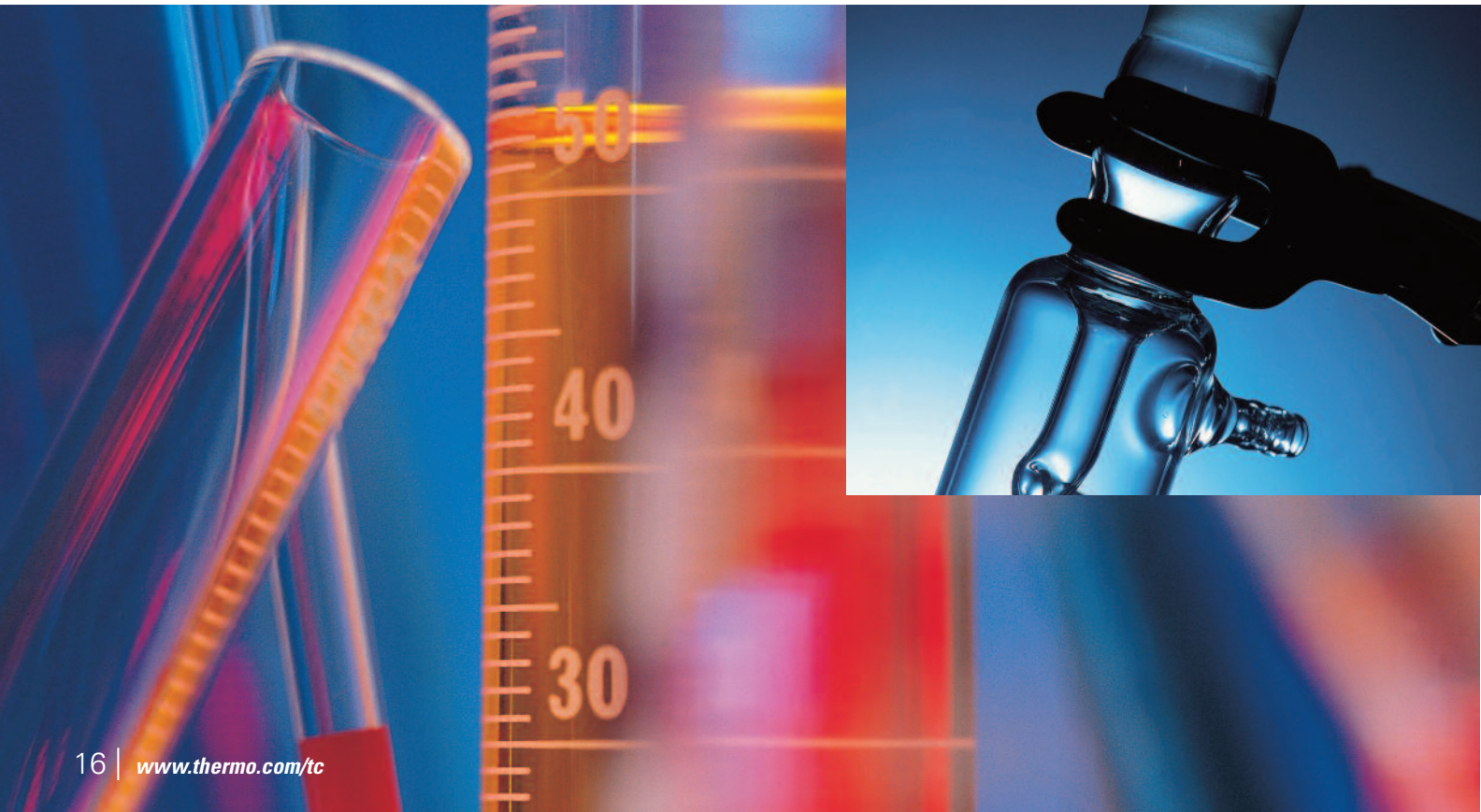
| Part# | Temperature Sensors |
|---|---|
| 333-0429 | Pt100 Sensor TT stainless steel, 150mm long, diameter 3mm, cable length 3m. |
| 333-0428 | Pt100 Sensor ST stainless steel, 27mm long, diameter 3mm, with thread M10x1, cable length 3m. |
| 333-0423 | Pt100 Sensor HT stainless steel, 100mm long, diameter 3mm, cable length 3m. Only to be used with T-piece 001-1766 |
| 001-1766 | T-piece adapter for Pt100 Sensor H, to be used in metal tubings lines, M 16 x 1 union |
| 333-0818 | Sensor BT Pt100 Sensor, teflon coated, flexible, 300 mm long, Ø 3 mm, cable length 3 m |
| **Part#** | **Heat Transfer Fluids** |
| 999-0203 | Sil 180 Silicone Oil Bath Liquid, Temperature Range -40°C to 200°C, 5L Container |
| 999-0204 | Sil 180 Silicone Oil Bath Liquid, Temperature Range -40°C to 200°C, 10L Container |
| 999-0225 | Synth 200 Bath Liquid, Temperature Range +20°C to +210°C, 5L Container |
| 999-0226 | Synth 200 Bath Liquid, Temperature Range +20°C to +210°C, 10L Container |
| 128-0019 | Ethylene Glycol, 5 Gallon ( approx. 19 Liter ) |

# Step 4 Choose Your Services Options

## Protect your investment and plan for the future – the time to act is now

Whether you are concerned about cost management, maximizing system uptime, or guaranteed quality of service, Thermo Scientific service solutions are always the right choice. Only the original equipment manufacturer can provide complete service solutions to match your needs, backed by factory certified repairs. Let the temperature control experts develop a life cycle management plan specifically for you.

* Please contact your representative for qualification.



# Professional Standard Service Offerings

**Extended Warranty and Repair Services**
Securing an Extended Warranty or Repair Service Plan from the original manufacturer just makes -good business sense. You continue to get the same benefits as the original warranty, giving you peace of mind.

### Service Features & Benefits

- All parts and labor covered
- Affordable pricing
- Repairs performed by certified factory trained technicians
- Only original OEM parts used
- No unexpected repair costs
- No need to generate a PO to obtain service for better budget control

**Preventative Maintenance / Calibration**
Extend the functional integrity of your system via a scheduled preventative maintenance and calibration service. Regularly scheduled preventative maintenance can help prevent premature failure of critical components including pumps, compressors and fan motors.

### Service Features & Benefits

- Performance verification testing
- Temperature calibration full functional testing
- Cleaning, including condenser and strainer
- Check refrigeration and water pressures
- Fluid and refrigeration leak testing
- Improved performance
- Extend component life
- Protection against premature component failure

## Custom Service Solutions

If your needs aren't met by our standard service offerings, let us design a custom service solution that will specifically meet your requirements.

### Custom Solutions include:

- Multiple unit agreements
- Special pricing for bundled services
- Customer training programs
- Swap strategies
- Spare parts management
- Application support
- Refurbishment as new
- One rate pricing
- Loaner programs
- Rentals

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